

WEDNESDAY 30 SEPTEMBER

OCCURRENCE IN ENVIRONMENTAL AND BIOLOGICAL SAMPLES

Chairman: T. Fazio

0.49 $\mu\text{g}/\text{m}^3$

- 09.00 0-17 BOCOVSKI, P., Kann, J., Rooma, M., Tauts, O. & Uibu, J.
Research on environmental *N*-nitroso compounds in the USSR
- 09.20 0-18 KAWABATA, T., Matsui, M., Ishibashi, T., Hamano, M. & Ino, M.
Formation of *N*-nitroso compounds during cooking of Japanese food
- 09.40 0-19 TOMITA, I., Nakamura, Y. & Tanaka, H.
Mutagenicity of various Japanese foodstuffs treated with nitrite
- 10.00 0-20 van BROEKHOVEN, L.W. & Davies, J.A.R.
N-Nitrosamines in grass silage
- 10.20 COFFEE BREAK

Chairman: T. Kawabata

- 10.40 0-21 SPIEGELHALDER, B. & Preussmann, R.
Nitrosamines and rubber
- 11.00 0-22 FAJEN, John, Rounbehler, D.P. & Fine, D.H.
Summary report on *N*-nitrosamines in the factory environment
- 11.20 0-23 WALTERS, C.E., Smith, P.L.R., Reed, P.I., Haines, K. & House, F.R.
N-Nitroso compounds in gastric juice and their relationship to gastroduodenal disease
- 11.40 0-24 ELLEN, G., Schuller, P.L., Bruijns, E., Froeling, P.G.A.M. & Baadenhuijsen, H.
Volatile *N*-nitrosamines, nitrate and nitrite in urine and saliva of healthy volunteers after administration of large amounts of nitrate

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12.00

0-25 FINE, D.H., Challis, B.C., Hartman, P. & Van Ryzin, J.

Comparison of human exposure and risk assessment of nitrosamines from endogenous and exogenous sources

12.20

LUNCH

POSTER DISPLAY AND PLENARY DISCUSSION

Chairman: W. Lijinsky

Rapporteurs: P. Groenen, M. Börzsönyi

14.00 -15.30 Poster presentation

15.30 COFFEE BREAK

15.50 -17.20 Discussion on posters

Poster related to Analysis

P-18

ROUNBEHLER, D.P. & Fine, D.H.

Specific detection of amines and other nitrogen containing compounds with a modified TEA analyzer

Posters related to Safety

P-19 WALTERS, C.L.

Destruction of *N*-nitrosamides in laboratory waste

P-20

CASTEGNARO, Marcel, Michelon, J. & Walker, E.A.

Some detoxification methods for nitrosamine contaminated wastes

P-21 SANSONE, E.B., Lunn, G., Jonas, L.A. & Keefer, L.K.

Approaches to hazard control in the carcinogenesis laboratory: *N*-nitroso compounds

P-22 JØRGENSEN, K.A. & Lawesson, S.O.

Destruction of *N*-nitrosamides with a P,S-reagent and attempts to nitrosate thioamides

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Posters related to Biological Effects

- P-23 POBERUFOID, M.B., Deboyser, D., Goethals, F. & Krack, G.
Biochemical mechanisms of toxicity of nitrosopyrrolidine on isolated hepatocytes
- P-24 EISENBRAND, G., Heydt, G. & Preussmann, R.
Metabolism of isomeric *N*-nitroso-*N*-methylaminopyridines by rat liver microsomes.
- P-25 JANZOWSKI, C., Gottfried, J., Pool, B.L., Eisenbrand, G. & Preussmann, R.
In vitro metabolism of fluorinated dialkyl nitrosamines
- P-26 SAKAI, Ayako & Tanimura, A.
Mutagenicity of *N*-nitroso compounds formed by the reaction of sulpyrine with nitrite; effect of cysteine and its derivatives
- P-27 INOJ, Naomichi, Nishi, Y. & Tanimura, A.
Induction of 8-azaguanine-resistant mutation and neoplastic transformation of hamster embryonic cells by coadministration of sodium nitrite and aminopyrine
- P-28 RAO, T.K., Epler, J.L. & Lijinsky, W.
Structure activity studies with *N*-nitrosamines using *Salmonella typhimurium* and *Escherichia coli*
- P-29 PREUSSMANN, R., Habs, M., Schmähl, D. & Eisenbrand, G.
Dose-response study on the carcinogenicity of *N*-nitroso-diethanolamine (NDEIA) in male Sprague-Dawley rats
- P-30 KONISHI, Yoichi, Denda, A., Takahashi, S., Maruyama, H., Yokose, Y., Mori, Y., Matsui, M. & Toyoshi, K.
Organotropic effect of *N*-bis(2-hydroxypropyl)nitrosamine: production of lung adenocarcinoma by a single intra-peritoneal injection in rats.
- P-31 HOFFMANN, Dietrich, Adams, J.D., Brunnemann, K.D., Rivenson, A. & Hecht, S.S.
Tobacco specific nitrosamines: occurrence and bioassays

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P-32 OHGAKI, Hiroko, Kawachi, T., Matsukura, N., Morino, K.
& Sugimura, T.

Genetic control of sensitivity of gastroduodenal carcinogenesis
in rats by *N*-methyl-*N'*-nitro-*N*-nitrosoguanidine

P-33 FONG, L.Y.Y., Lee, J.S.K., Chan, W.C. & Newberne, P.M.

Zinc deficiency and the induction of esophageal tumors
in rats by methylbenzylamine and sodium nitrite

P-34 MCCOY, G. David, Katayama, S., Young, R., Wyatt, M. & Hecht, S.S.

Influence of chronic ethanol consumption on the metabolism
and carcinogenicity of tobacco related nitrosamines

P-35 BÖRZSÖNYI, Matias, Torok, G., Pinter, A., Surjan, A.,
Csik, M. & Bar, V.

Inhibition of the carcinogenic effect of nitrosomorpholine
formed *in vivo* by an antioxidant

EVENING

BANQUET

T S OSDENE

DEC 28 1981

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THURSDAY 1 OCTOBER

BIOLOGICAL EFFECTS, CARCINOGENIC

Chairman: R. Preussmann

- 09.00 0-26 TANAKA, Akira & Watanabe, M.
Metabolism of 1-propyl-1-nitrosourea (PMU) in rats
- 09.20 0-27 SINGER, George M., Lijinsky, W., Buettner, L. & McClusky, G.A.
Metabolism of nitrosomethyl-*n*-alkylamines in Fischer rats
- 09.40 0-28 HECHE, S.S., Young, R., Rivenson, A. & Hoffmann, D.
On the metabolic activation of *N*-nitrosomorpholine and
N'-nitrosomnicotine: effects of deuterium substitution.
- 10.00 0-29 ITO, Nobuyuki, Fukushima, S., Tsuda, H., Shirai, T. & Arai, M.
Dose-response changes in rats treated with *N*-nitroso compounds
- 10.20 0-30 MAEKAWA, A., Takahashi, M., Kurokawa, Y., Kokubo, T., Ogiu, T.,
Mochizuki, M., Anjo, T., Okada, M. & the late Odashima, S.
Carcinogenicity of α -oxidized nitrosamines (α -acetoxy,
 α -hydroperoxy, and α -oxo nitrosamines) in F-344 rats

10.40 COFFEE BREAK

Chairman: P. Bogovski

- 11.00 0-31 LIJINSKY, William
Chemical structural effects in carcinogenesis by nitrosamines
- 11.20 0-32 GRICUTE, Laima, Castegnaro, M. & Béréziat, J.C.
Influence of ethyl alcohol on the carcinogenic activity
of *N*-nitrosodi-*n*-propylamine (NDPA)
- 11.40 0-33 SCHWENKBERG, F., Weissenberger, I. & Burkle, V.
Effect of disulfiram on the carcinogenicity of nitrosamines

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12.00 0-34 SHARMANOV, T.Sh. & Aidjanov, M.M.

Effect of amino acids imbalance and ascorbic acid deficiency
on carcinogenic action of *N*-nitrosopiperidine in guinea pigs

12.20 LUNCH

BIOLOGICAL EFFECTS, GENOTOXIC

Chairmen: T. Sugimura, T. Kawachi

(14.00) 0-35 SRIKER, D., Piatek, B. & Tannenbaum, S.R.

N-Nitrosamides of natural origin

(14.20) 0-36 WAKABAYASHI, Keiji, Nagao, M., Kawachi, T. & Sugimura, T.

Mechanism of appearance of mutagenicity of
diphenylnitrosamine with norharman

(14.40) 0-37 NIGISHI, Tomoe, Ohara, Y. & Hayatsu, H.

A sensitive assay for mutagenic activity of *N*-nitrosamines
and its use for detection of modulators of the mutagenicity

(15.00) 0-38 BARTSCH, Helmut, Malaveille, C., Terracini, B., Tomatis, L.,
Brun, G. & Odlet, B.

Quantitative comparisons between carcinogenicity,
mutagenicity and electrophilicity of direct-acting
N-nitroso compounds and other alkylating agents

15.20 CLOSING ADDRESS - *T. Sugimura*

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